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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/622,751	07/18/2003	Matthew David Tarler	CMD-006 3135		
7590 10/20/2004			EXAMINER		
Brian M. Kolkowski			ELLINGTON, ALANDRA		
Cleveland Medi 6340 Taylor Ro		ART UNIT	PAPER NUMBER		
Leroy, OH 44		2855			
			DATE MAILED: 10/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	A		ı No.	Applicant(s)				
Office Action Summary		10/622,751		TARLER, MATTHEW DAVID				
		Examiner		Art Unit				
		Alandra Ell	ington	2855				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on	•						
,		— is action is no	n-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)⊠ 6)⊠ 7)⊠	4)  Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) 6-10 is/are allowed.  6)  Claim(s) 1 and 11-20 is/are rejected.  7)  Claim(s) 2-5 is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.							
Application Papers								
<ul> <li>9) ☐ The specification is objected to by the Examiner.</li> <li>10) ☐ The drawing(s) filed on 18 July 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>								
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice 3) Information	et(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0) tr No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)			

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## **DETAILED ACTION**

### Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

# **Drawings**

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 56, 76. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the

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applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to under 37 CFR 1.83(a) because they fail to show "two electrical pathways 81" (pg. 14 line 11) and "two electrical pathways 91" (pg. 14 line 28) as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

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4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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- 5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Starr, Jr. (4,466,274).
  - a. With respect to Claim 1, Starr, Jr. discloses a sensor comprising two layers of contact material 42 ({Fig. 4}), and a flexible material 15 interposed between the two layers of contact material 42 (col. 4 lines 6-24); wherein the sensor can be used to simultaneously measure both shear and normal forces applied to the sensor (col. 4 lines 6-53, col. 5 lines 63-68, col. 6 lines 1-2 {Fig. 5}).
  - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 11-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Repperger et al (6,736,015).
  - a. With respect to Claim 11, Repperger et al discloses a method of designing an object or device comprising the steps of : applying at least two flexible, compliant sensors 500 capable of simultaneously measuring both shear and normal forces, to locations on a prototype design of an object or device being designed; using the prototype design with the applied sensors 500 in at least one

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application or test over a test period of time; measuring both the shear and the normal forces encountered at the sensor locations of the prototype design over at least part of the test time period; and modifying the design of the object or device in part based on the forces encountered by the prototype design during the application or test (col. 4 lines 18-68, col. 5 lines 1-28 {Figs. 5,6}).

- b. With respect to Claim 12, the method in claim 11, wherein the sensor 300 is statically responsive (col. 3 lines 14-45 {Fig. 3}).
- c. With respect to Claims 13-20, the method in claim 12, wherein the object or device is a medical device, athletic footwear, automobiles, consumer goods, household furnishings, sporting event, the application is use by a patient or by a typical consumer (col. 1 lines 20-35 {Figs 8,9}).

### Allowable Subject Matter

- 7. Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: The reasons for the indication of allowable subject matter are based on the inclusion of:
  - a. In Claim 1, the sensor is *statically* responsive.
  - b. In Claim 3, the flexible material interposed between the two layers of contact material is a composite sheet material comprising a compliant essentially non-conductive matrix and electrically conductive elements.

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c. In Claim 4, the layers of contact material is formed from *multiple* conductive lines or regions.

- Claims 6-10 are allowed.
- 9. The following is an examiner's statement of reasons for allowance: The reason for allowance is based on the inclusion of at least one of the layers of contact material is formed from *multiple conductive lines or regions*.
- 10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. Ko (5,528,452) discloses a capacitive pressure sensor.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alandra Ellington whose telephone number is (571) 272-2178. The examiner can normally be reached on Monday Friday, 7:30am 4:00pm.
- 13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alandra Ellington Art Unit 2855

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